

## List of Current Sensor-related patents or patents pending at LaRC

Case Number	New Technology Report Title
LAR-14588-1-CU	Non-Mechanical Optical Path Switching Its Application To Dual Beam Spectroscopy Including Gas Filter Correlation Radiometry
LAR-15818-2	Optical Path Switching Based Differential Absorption Radiometry For Substance Detection
LAR-15818-3	Optical Path Switching Based Differential Absorption Radiometry For Substance Detection
LAR-16116-1	Giant Magnetoresistive Based Self-Nulling Probe For Deep Flaw Detection
LAR-16231-1-CU	MEMS Based Acoustic Array
LAR-16279-1	Carbon Nanotube Based High Bandwidth Imaging And Sensing Device
LAR-16393-1	Sonic Transducers And Sensors Using Radial Field Diaphragms
LAR-16440-1	Method Of Determining Intracranial Pressure From Skull Expansion Measurements
LAR-16475-1	Carbon Nanotube-Based Structural Health Monitoring Sensor
LAR-16510-1	Non-Invasive Method Of Determining Absolute Intracranial Pressure
LAR-16516-1	Autonomous Health Monitoring Architecture Hardware
LAR-16538-1	Micro-LiDAR For In-Flight Flow Velocimetry And Boundary Layer Control
LAR-16549-1	Inductor (L)-Capacitor ( C ) (aka, LC) Sensor Circuit For Piezo Material Monitoring
LAR-16556-1	Planer Internally Interdigitated Transducer
LAR-16571-1	LC Sensing Element For Closed Cavities Having Low Radio Frequency Transmissivity
LAR-16571-2	Magnetic Field Response Sensor For Conductive Media
LAR-16573-1	Carbon Nanotube Based Light Sensor
LAR-16575-1	Instrumented Crimping Tool For Critical Wiring Applications
LAR-16640-1	Programmable Smart Grating Device With Quantum Aperture Array
LAR-16698-1	High Performance High Efficiency Hybrid Actuator Systems (HYBAS)
LAR-16858-1	Thin, High-Contrast Targets for Ultralightweight Structures

LAR-16886-1	Dual Sensing Capable Germ Or Toxic Chemical (GTC) Sensor Using Quantum Aperture Array With Surface Plasmon Polariton (SPP)
LAR-16900-1	CNT based crack growth detector and strain field monitor
LAR-16908-1	Magnetic Field Response Measurement Acquisition System (Includes LAR-16138-1, LAR-16554-1, LAR-16591-1, LAR-16614-1, LAR-16617-1, & LAR-16908-1)
LAR-16950-1	Ferroelectric Light Control Device
LAR-16970-1	Method For Determining Cracks On And Within Composite Panels
LAR-16974-1	Methods Of Mounting Erectable, Flexible And Fixed Magnetic Field Response Sensors
LAR-17013-1	Thermally Driven Miniature Piston Actuator
LAR-17073-1	Interdigitated Electrode Actuators For Straining Optical Fibers (IDEAS)
LAR-17116-1	Wireless Fuel Volume Measurement Techniques
LAR-17155-1	Wireless Fluid-Lead Measuring Dipstick Assembly (Broken Out Of LAR-16974-1)
LAR-17168-1	Cylindrical Shaped Micro Fiber Composite (CMFC) Actuators
LAR-17229-1	Thin-film evaporative cooling concept for a solid-state laser diode crystal
LAR-17231-1	Electro-Optic Micro-Zone-Plate as a Programmable Micro-Lens and Micro-Spectrometer
LAR-17235-1	Multi-Point, Multi-Component Interferometric Rayleigh/Mie Doppler Velocimeter
LAR-17237-1	Photonic DART (Densely Accumulated Ray-point by micro-zone-plaTe)
LAR-17241-1	Optical Data Storage System with Micro Zone Plate
LAR-17242-1	MICRO-RING THIN-FILM SPECTROMETER ARRAY
LAR-17257-1	Detecting the loss of configuration access of reprogrammable Field Programmable Gate Array (FPGA) without external circuitry
LAR-17268-1	Integrated mitigation for single event upset (SEU) of reprogrammable field programmable gate arrays (FPGA) operating in radiation environments
LAR-17280-1	Magnetic Field Response Measurement Acquisition System
LAR-17294-1	Low Profile Sensors Using Self-Resonating Inductors
LAR-17295-1	System For Providing Damage Detection And Thermal Protection

LAR-17300-1	A Method and Apparatus for Determination of the Reflection Wavelength of Multiple Low-Reflectivity Bragg Gratings in a Single Fiber
LAR-17317-1	Extreme Low Frequency Acoustic Measurement Portable System
LAR-17323-1	Concept And Design Of Oxygen Band Radar For Surface Air Pressure Remote Sensing
LAR-17416-1	Integrated Universal Chemical Detector with Selective Diffraction Array
LAR-17425-1	Micro Spectrometer for Parallel Light
LAR-17432-1	Forward Voltage Short Pulse (FVSP) Technique for Measuring High Power Laser Diode Array (LDA) Junction Temperature
LAR-17433-1	A Multi-Measurement Wheel Sensor
LAR-17440-1	Resonant Difference-Frequency Atomic Force Ultrasonic Microscope
LAR-17444-1	Wireless Tamper Detection Sensor Requiring No Electrical Connection
LAR-17469-1	Micro Ring Grating Spectrometer with Moveable Aperture Slit
LAR-17480-1	A Method To Calibrate Magnetic Response Fluid-Level Sensors Using Complete Sensor Immersion In Fluid
LAR-17488-1	Thin-Film Sensor For Measuring Liquid-Level And Temperature Having No Electrical Connections
LAR-17495-1	An Optical Method For Detecting Displacements And Strains At Ultra High Temperatures During Thermo-Mechanical Testing
LAR-17539-1	Development Of Eddy Current Techniques For The Detection Of Stress Corrosion Cracking In Space Shuttle Primary Reaction Control Thrusters
LAR-17547-1	Line Tunable Visible and Ultraviolet Laser
LAR-17573-1	Air Coupled Acoustic Thermography Nondestructive Evaluation System And Method
LAR-17579-1	Wireless Chemical Sensing Using Changes To An Electrically Conductive Reactant Within Sensor's Magnetic Field
LAR-17629-1	A Method for Shape Determination of Multi-Core Optical Fiber
LAR-17634-1	Distributed transducer capable of generating or sensing a transverse point load
LAR-17711-1	Wireless Electrical Applications/Devices Using "floating Electrodes" Electromagnetically Coupled to Open-Circuit Devices